

## Rigips Bauplatte RBI 12,5



- flexible and space saving
- individual room layout



- extended durability
- excellent ecobalance



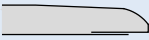
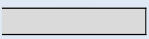
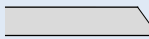
- agreeable inside air humidity
- recommended by the IBR Rosenheim



- cost-effective due to short construction time
- no long drying times

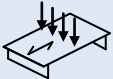
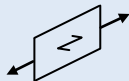
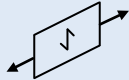
|                        |   |
|------------------------|---|
| <b>Characteristics</b> | Rigips Bauplatten (plasterboards) are made of a special gypsum core encased in cardboard.   |
| <b>Application</b>     | Rigips Bauplatten (plasterboards) are an ideal solution to build up drywalls, installation walls, suspended ceilings, sloping ceilings and many other applications. |
| <b>Installation</b>    | According to the Rigips application guidance  |

### Technical data

|                                   |  |   |            |
|-----------------------------------|--|---|------------|
| <b>Type</b>                       | Gypsum plasterboard type H2            | as per DIN EN 520   |            |
|                                   | Gypsum plasterboard GKBI               | as per DIN 18180  |            |
|                                   | non-combustible                        |   |            |
|                                   | European Classification: A2-s1, d0 (B) | as per DIN EN 520   |            |
| <b>Edge profile</b>               | Longitudinal edges                     |  Vario   |            |
|                                   |  | Designed for filling of joints with Rigips VARIO joint filler, either with or without reinforcing strips.   |            |
|                                   | Transverse edges                       |  SK  SKF |            |
| <b>Dimensions</b>                 | Nominal thickness                      | 12.5 [mm]   |            |
|                                   | Width x Lengths                        | For possible dimensions please consult our delivery programme.<br>Special lengths (intermediate sizes, overlength) and sheet cutting possible - delivery time on request.       |            |
|                                   | Dimensional tolerances                 | Thickness   | ±0.5 [mm]  |
|                                   |  | Width   | +0/-4 [mm] |
| Length                            |  | +0/-5 [mm]  |            |
| Squareness: deviation per m width |  | ≤ 2.5 [mm/m]  |            |
|                                   |  | as per DIN EN 520   |            |

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| Rigips Bauplatte RBI 12,5 |  |   |  |  |   |
|---------------------------|--|---|--|--|---|
| Plasterboard marking      | On rear side                                 | The marking in longitudinal direction in blue contains:<br>- RIGIPS Bauplatte RBI<br>- CE-symbol<br>- DIN EN 520: type H2<br>- DIN 18180: GKBI<br>- A2-s1, d0 (B)<br>- Production date and/or shift number<br><br>Generally, together with the lettering, a row of dots mark the board centre within a strip of ca. 5 cm width (position of the metal stud sections for walls). |  |  |   |
|                           | On front side                                | To ease installation, the board centre is marked with the letters RBI which are 3-5mm high and located at a distance of about 250 mm (screw spacing) from each other. The position tolerance of the marking from the board centre is $\pm 2$ cm max.  |  |  |   |
|                           | Edge marking                                 | „RIGIPS VARIO 12,5“ at the longitudinal edge in blue  |  |  |   |
| Weight                    | Weight per unit area                         | $\geq 8.5$  | [kg/m <sup>2</sup> ]   | as per DIN 18180   |   |
|                           | Edge marking                                 | $\geq 680$  | [kg/m <sup>3</sup> ]   | as per DIN EN 520  |   |
| Strengths                 | Breaking load                                | $\perp$   | perpendicular to direction of manufacture in longitudinal direction of the board |  | as per DIN EN 520<br>as per DIN 18180   |
|                           |  | $\geq 610$<br>$\geq 210$  | $\perp$ [N]<br>$\parallel$ [N]   |  |   |
|                           | Bending tensile strength                     | $\geq 6.8$<br>$\geq 2.4$  | $\perp$ [N/mm <sup>2</sup> ]<br>$\parallel$ [N/mm <sup>2</sup> ]                 |  |   |
|                           |  | Modulus of elasticity   | $\geq 2800$<br>$\geq 2200$   | $\perp$ [N/mm <sup>2</sup> ]<br>$\parallel$ [N/mm <sup>2</sup> ]                     | as per DIN 18180<br>as per DIN 18180  |
|                           | Compressive strength vertical to the surface | 5-10  | [N/mm <sup>2</sup> ]   |  |   |
|                           | Tensile strength                             | 1.8-2.5   | [N/mm <sup>2</sup> ]   | in longitudinal direction of the board   |  |
|                           |  | 1.0-1.2   | [N/mm <sup>2</sup> ]   | in transverse direction of the board   |  |
| Shear strength            | 510  | [N]   | connection between board and substructure  | as per DIN EN 520  |   |
| Shear strength            | 3.0-4.5                                      | [N/mm <sup>2</sup> ]  | vertical to surface  |  |   |
|                           | 2.5-4.0                                      | [N/mm <sup>2</sup> ]  | parallel to surface  |  |   |

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|          |   |   |              |                                       |
|----------|---|---|--------------|---------------------------------------|
| Heat     | Thermal conductivity $\lambda_R$                              | 0.25  | [W/(m x K)]  | as per DIN EN 520                     |
|          | Thermal expansion coefficient at 60% RH                       | 0.013-0.020   | [mm/(m x K)] |                                       |
|          | Thermal threshold stress (long-term load)                     | max. 50   | [°C]         | short-term load 60°C                  |
| Humidity | Vapour diffusion resistance factor $\mu$                      | dry 10<br>wet 4   | [-]<br>[-]   | as per DIN EN 520                     |
|          | Diffusion equivalent air layer thickness $s_d$                | dry 0.13<br>wet 0.05  | [m]<br>[m]   | as per DIN 4108                       |
|          | Water absorption for 2 h fully immersed in water              | $\leq 10$   | [Masse-%]    | as per DIN EN 520<br>as per DIN 18180 |
|          | Dilatation due to changing of relative humidity by 30% (20°C) | 0.015   | [%]          |                                       |
|          | Sign  | The values given in this product data sheet solely describe the performance characteristics of the products. Rigips-Systems also have far-reaching structural-physical and static properties, which can be found in our system documentation (e.g. Planen und Bauen). |              |                                       |

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